Consensus Sequence

Symbol comparison table: blosum62.cmp CompCheck: 6430

Name: hTRADEalpha_1	Len:	423	Check:	4050	Weight:	1.00
Name: hTRAIN_1	Len:	423	Check:	4128	Weight:	1.00
Name: hTRADEbeta_1	Len:	423	Check:	7937	Weight:	1.00
Name: hApo420pep	Len:	423	Check:	8173	Weight:	1.00

//

```
                1                                                       50
hTRADEalpha_ MALKVLLEQE KTFFTLLVLL GYLSCKVTCE SGDCRQQEFR DRSGNCVPCN
   hTRAIN_1 MALKVLLEQE KTFFTLLVLL GYLSCKVTCE SGDCRQQEFR DRSGNCVPCN
hTRADEbeta_1 MALKVLLEQE KTFFTLLVLL GYLSCKVTCE TGDCRQQEFR DRSGNCVPCN
  hApo420pep MALKVLLEQE KTFFTLLVLL GYLSCKVTCE SGDCRQQEFR DRSGNCVPCN
   Consensus MALKVLLEQE KTFFTLLVLL GYLSCKVTCE SGDCRQQEFR DRSGNCVPCN

                                                                      100
               51
hTRADEalpha_ QCGPGMELSK ECGFGYGEDA QCVTCRLHRF KEDWGFQKCK PCLDCAVVNR
   hTRAIN_1 QCGPGMELSK ECGFGYGEDA QCVTCRLHRF KEDWGFQKCK PCLDCAVVNR
hTRADEbeta_1 QCGPGMELSK ECGFGYGEDA QCVTCRLHRF KEDWGFQKCK PCLDCAVVNR
  hApo420pep QCGPGMELSK ECGFGYGEDA QCVACRLHRF KEDWGFQKCK PCLDCAVVNR
   Consensus QCGPGMELSK ECGFGYGEDA QCVTCRLHRF KEDWGFQKCK PCLDCAVVNR

                                                                      150
              101
hTRADEalpha_ FQKANCSATS DAICGDCLPG FYRKTKLVGF QDMECVPCGD PPPPYEPHCA
   hTRAIN_1 FQKANCSATS DAICGDCLPG FYRKTKLVGF QDMECVPCGD PPPPYEPHCA
hTRADEbeta_1 FQKANCSATS DAICGDCLPG FYRKTKLVGF QDMECVPCGD PPPPYEPHCA
  hApo420pep FQKANCSATS DAICGDCLPG FYRKTKLVGF QDMECVPCGD PPPPYEPHCA
   Consensus FQKANCSATS DAICGDCLPG FYRKTKLVGF QDMECVPCGD PPPPYEPHCA

                                                                      200
              151
hTRADEalpha_ SKVNLVKIAS TASSPRDTAL AAVICSALAT VLLALLILCV IYCKRQFMEK
   hTRAIN_1 SKVNLVKIAS TASSPRDTAL AAVICSALAT VLLALLILCV IYCKRQFMEK
hTRADEbeta_1 SKVNLVKIAS TASSPRDTAL AAVICSALAT VLLALLILCV IYCKRQFMEK
  hApo420pep SKVNLVKIAS TASSPRDTAL AAVICSALAT VLLALLILCV IYCKRQFMEK
   Consensus SKVNLVKIAS TASSPRDTAL AAVICSALAT VLLALLILCV IYCKRQFMEK

                                                                      250
              201
hTRADEalpha_ KPSWSLRSQD IQYNGSELSC FDRPQLHEYA HRACCQCRRD SVQTCGPVRL
   hTRAIN_1 KPSWSLRSQD IQYNGSELSC FDRPQLHEYA HRACCQCRRD SVQTCGPVRL
hTRADEbeta_1 KPSWSLRSQD IQYNGSELSC LDRPQLHEYA HRACCQCRRD SVQTCGPVRL
  hApo420pep KPSWSLRSQD IQYNETELSC FDRPQLHEYA HRACCQCRRD SVQTCGPVRL
   Consensus KPSWSLRSQD IQYNGSELSC FDRPQLHEYA HRACCQCRRD SVQTCGPVRL

                                                                      300
              251
hTRADEalpha_ LPSMCCEEAC SPNPATLGCG VHSAASLQAR NAGPAGEMVP TFFGSLTQSI
   hTRAIN_1 LPSMCCEEAC SPNPATLGCG VHSAASLQAR NAGPAGEMVP TFFGSLTQSI
hTRADEbeta_1 LPSMCCEEAC SPNPATLGCG VHSAASLQAR NAGPAGEMVP TFFGSLTQSI
  hApo420pep LPSMCCEEAC SPNPATLGCG VHSAASLQAR NAGPAGEMVP TFFGSLTQSI
   Consensus LPSMCCEEAC SPNPATLGCG VHSAASLQAR NAGPAGEMVP TFFGSLTQSI
```

Figure 1

```
                    301                                                 350
hTRADEalpha_ CG[...]  MQNPMGGDNI SFCDSYPELT GEDI[...]  LESSTSLDSN
   hTRAIN_1  CG[...]  MQNPMGGDNI SFCDSYPELT GED[...]  LESSTSLDSN
hTRADEbeta_1 CGEFSDAWPL MQNPMGGDNI SFCDSYPELA GEDIHSLNPE LESSTSLDSN
  hApo420pep CGEFSDAWPL MQNPMGGDNI SFCDSYPELT GEDIHSLNPE LESSTSLDSN
   Consensus CGEFSDAWPL MQNPMGGDNI SFCDSYPELT GEDIHSLNPE LESSTSLDSN

                    351                                                 400
hTRADEalpha_ SSQDLVGGAV PVQSHSENFT AATDLSRYNN TLVESASTQD ALTMRSQLDQ
   hTRAIN_1  SSQDLVGGAV PVQSHSENFT AATDLSRYNN TLVESASTQD ALTMRSQLDQ
hTRADEbeta_1 SSQDLVGGAV PVQSHSENFT AATDLSRYNN TLVESASTQD ALTMRSQLDQ
  hApo420pep SSQDLVGGAV PVQSHSENFT AATDLSRYNN TLVESASTQD ALTMRSQLDQ
   Consensus SSQDLVGGAV PVQSHSENFT AATDLSRYNN TLVESASTQD ALTMRSQLDQ

                    401                                 423
hTRADEalpha_ ESGAIIHPAT QTSLQEA---- ---
   hTRAIN_1  ESGAVIHPAT QTSLQEA---- ---
hTRADEbeta_1 ESGAIIHPAT QTSLQVRQRL GSL
  hApo420pep ESGAVIHPAT QTSLQVRQRL GSL
   Consensus ESGA-IHPAT QTSLQ--QRL GSL
```

Document ID: 20030232001 Version: 1 Type: IDS Time Stamp: 2003-12-04 Number of Pages: 3

Figure 1

TRADE-α ESGAIIHPATQTSLQEA

TRADE-β ESGAIIHPATQTSLQVRQRLGSL

401 416 423

Figure 2

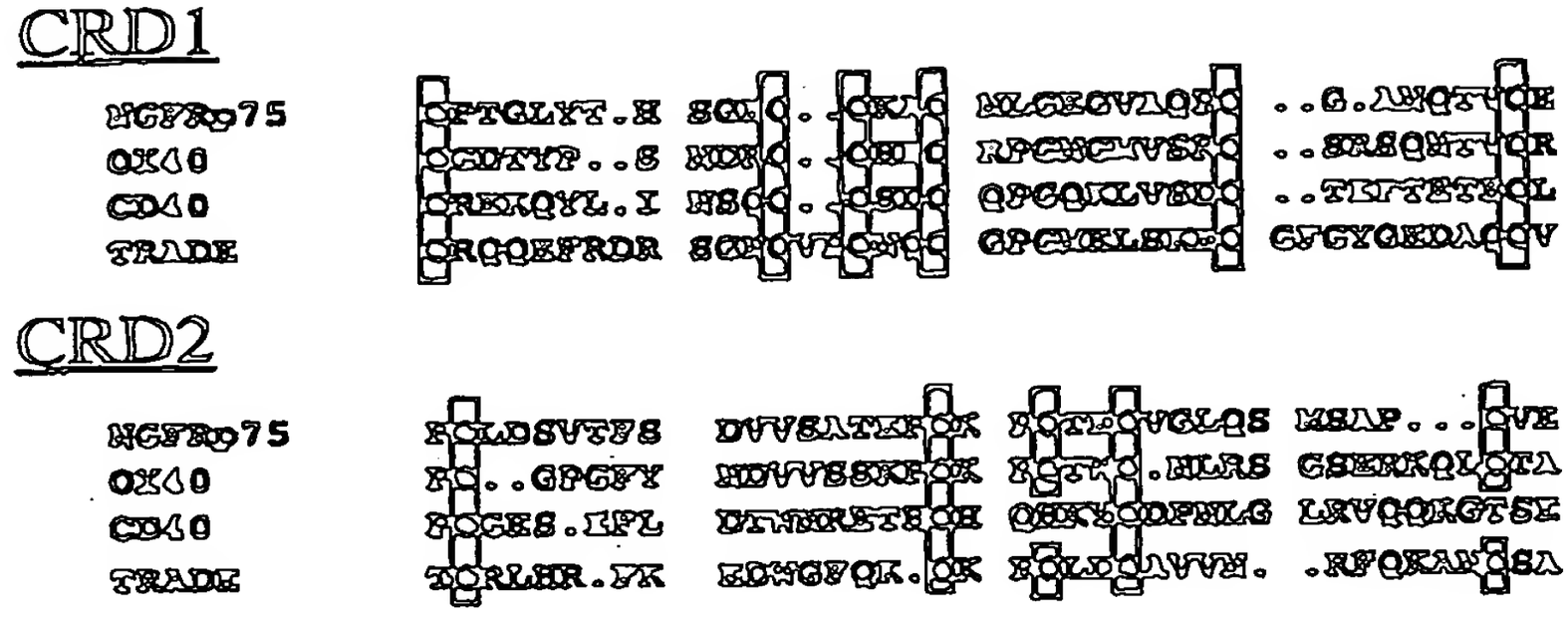


Figure 3

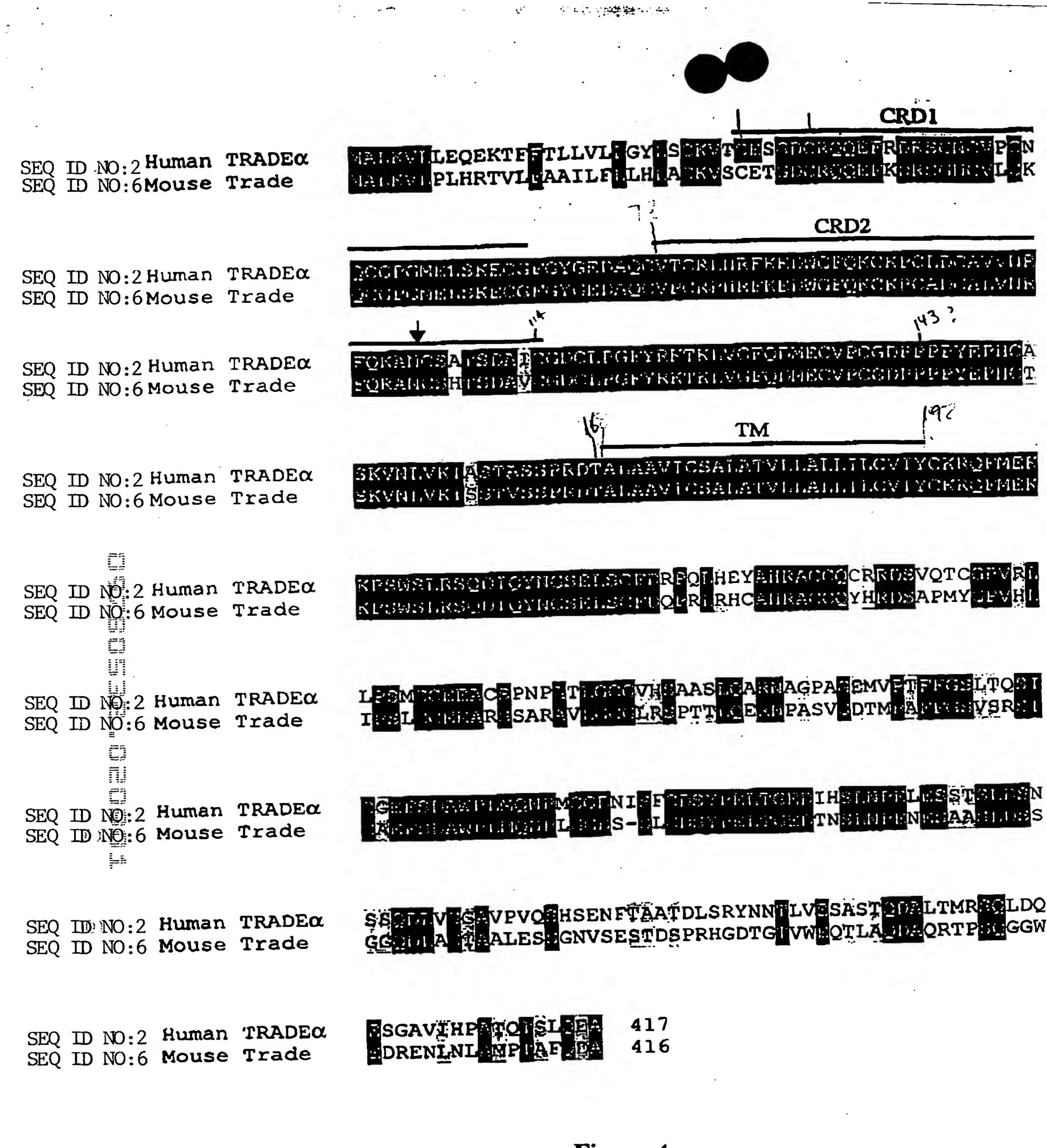
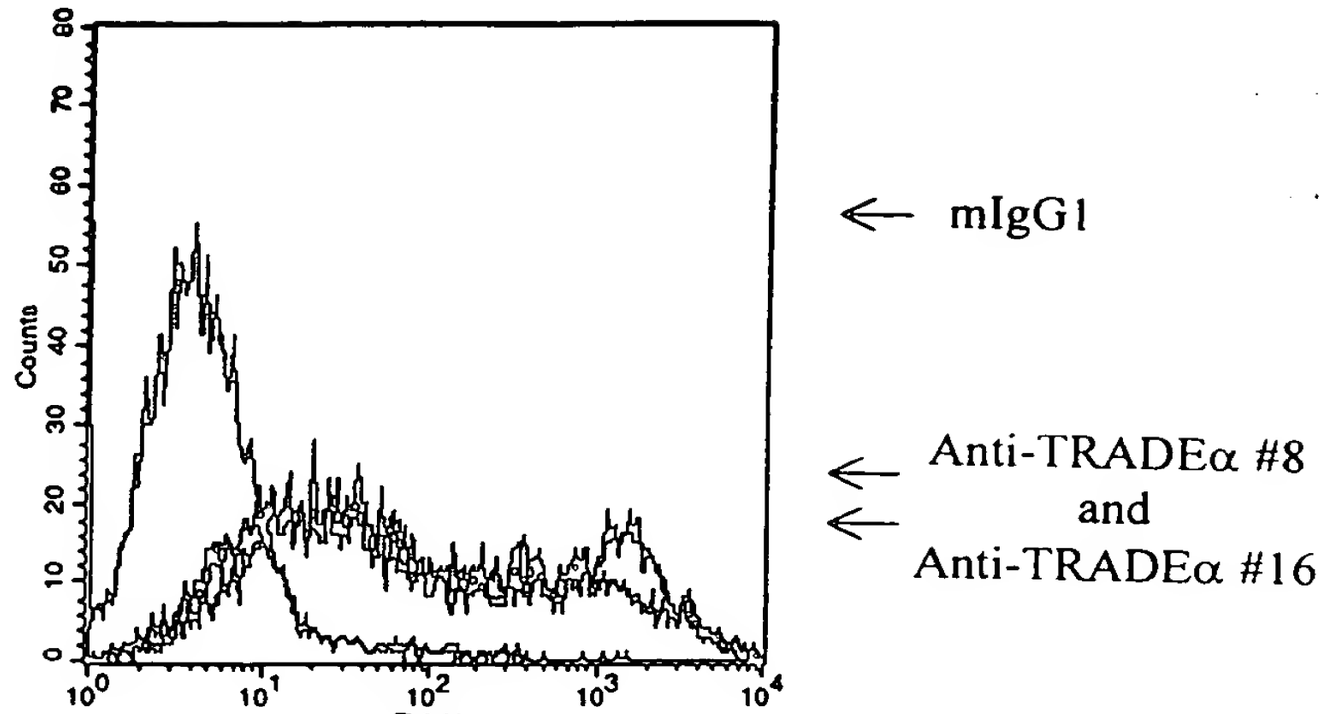


Figure 4


Counts
FL2-H
← mIgG1
← Anti-TRADEα #8
and
← Anti-TRADEα #16

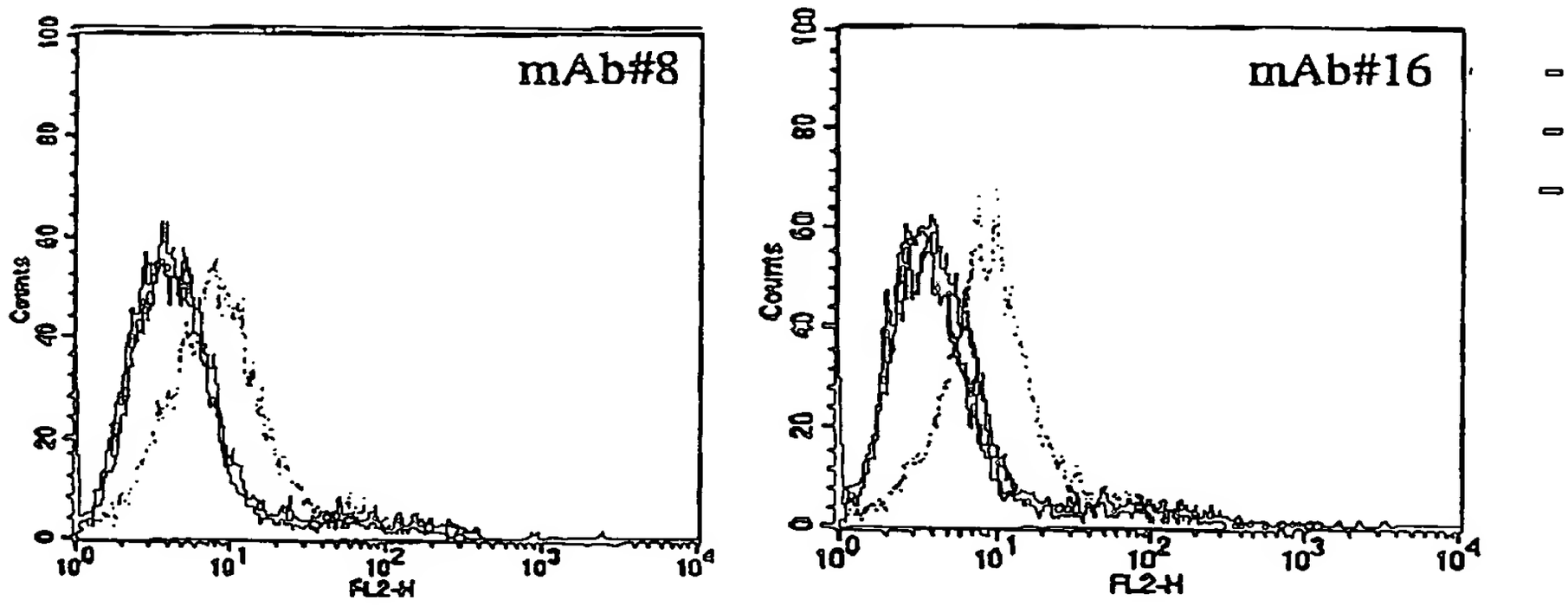
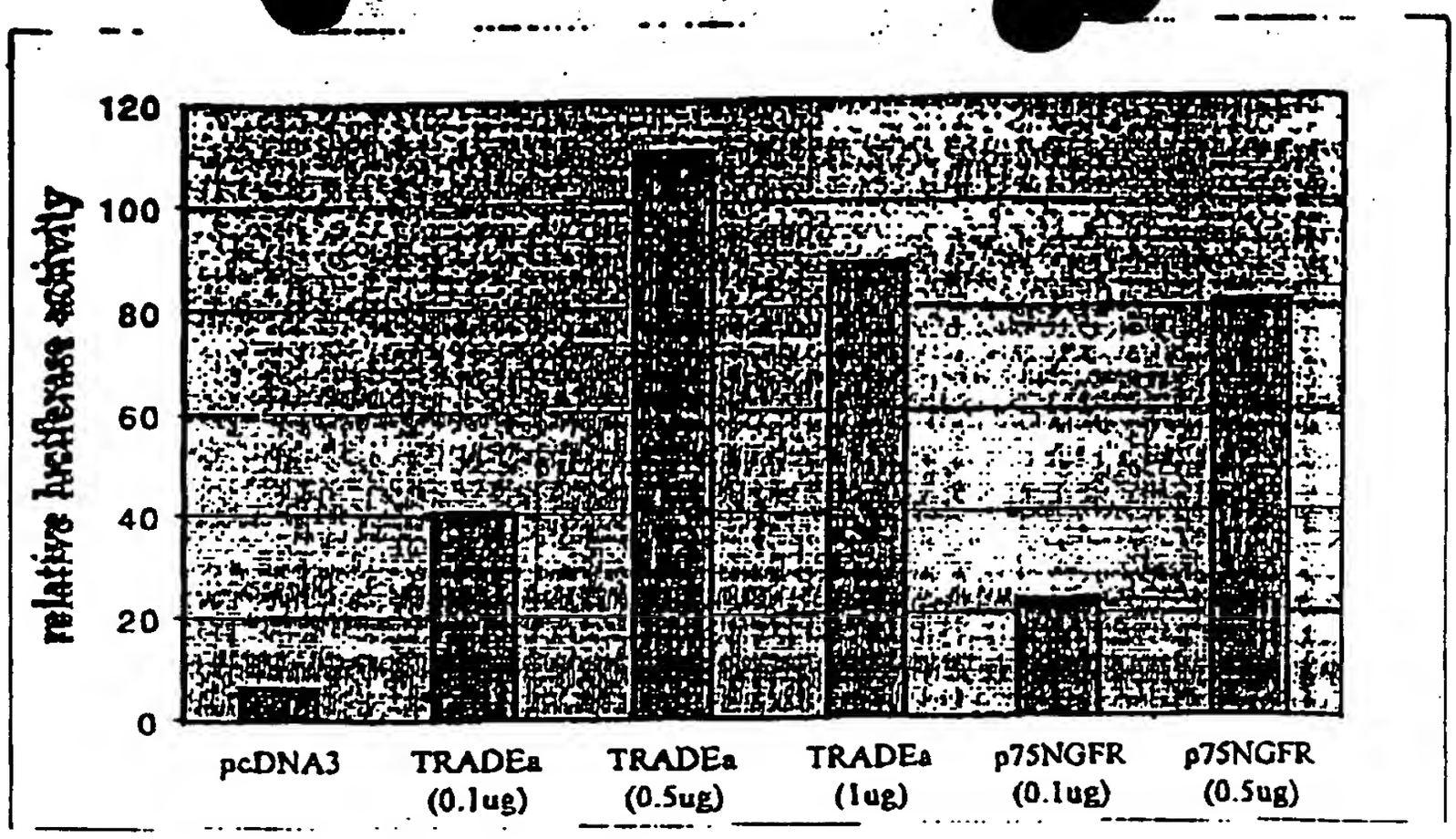

mAb#8
mAb#16
Counts
FL2-H
- mIgG1
- antibody
- antibody
+TRADE

Figure 5


relative luciferase activity
120
100
80
60
40
20
0
pcDNA3
TRADEa (0.1ug)
TRADEa (0.5ug)
TRADEa (1ug)
p75NGFR (0.1ug)
p75NGFR (0.5ug)

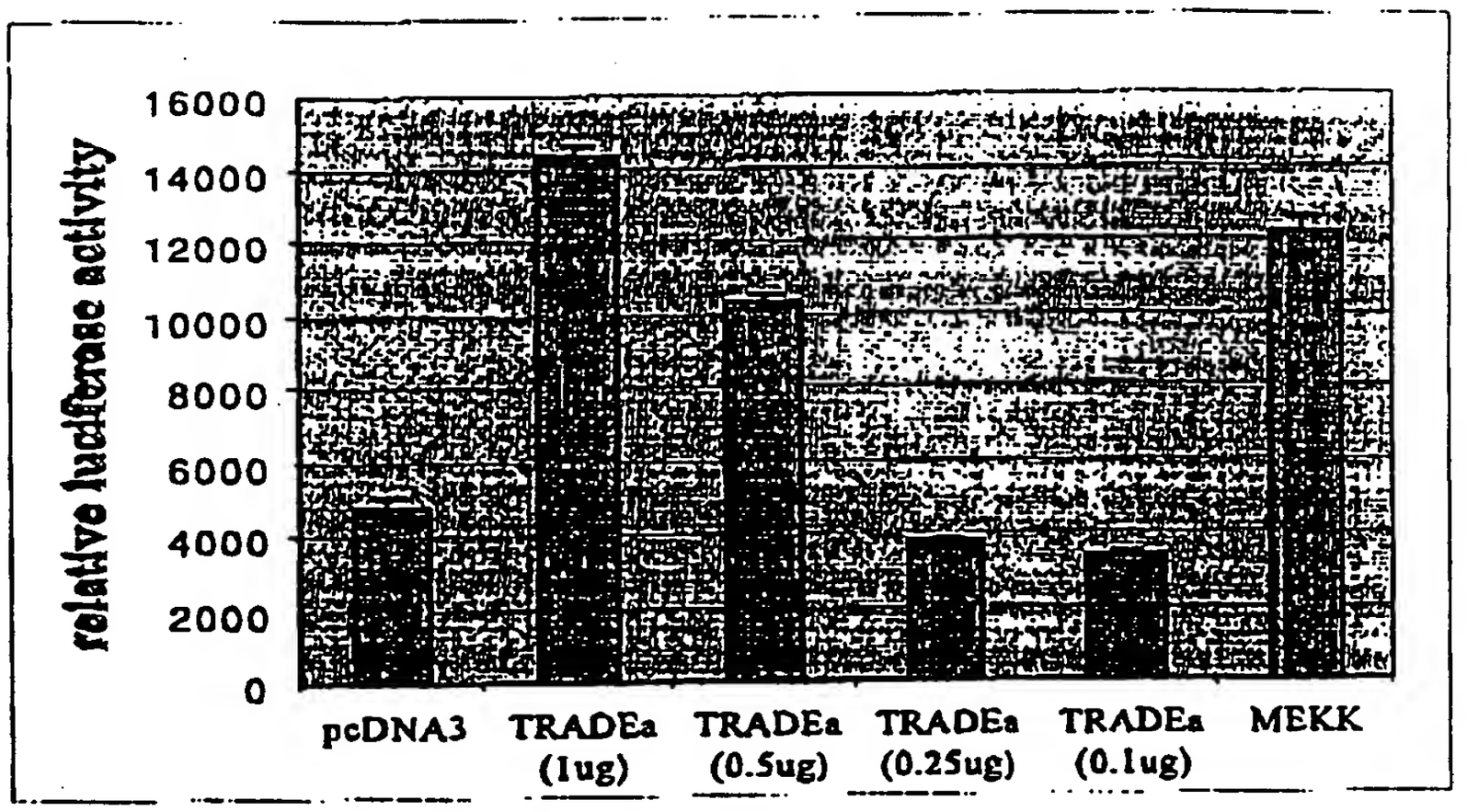
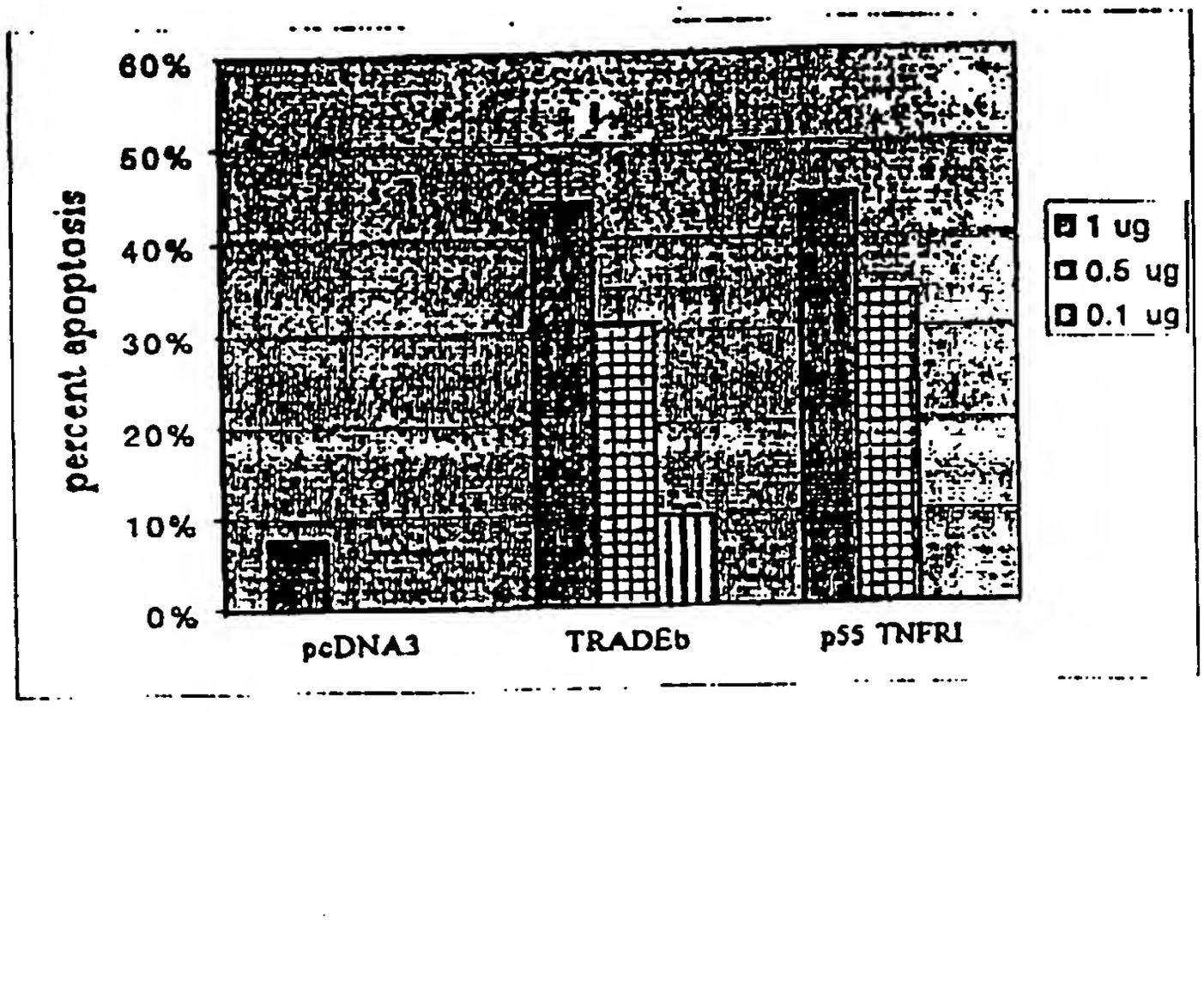

relative luciferase activity
16000
14000
12000
10000
8000
6000
4000
2000
0
pcDNA3
TRADEa (1ug)
TRADEa (0.5ug)
TRADEa (0.25ug)
TRADEa (0.1ug)
MEKK

Figure 6


percent apoptosis
60%
50%
40%
30%
20%
10%
0%
pcDNA3
TRADEb
p55 TNFRI
1 ug
0.5 ug
0.1 ug

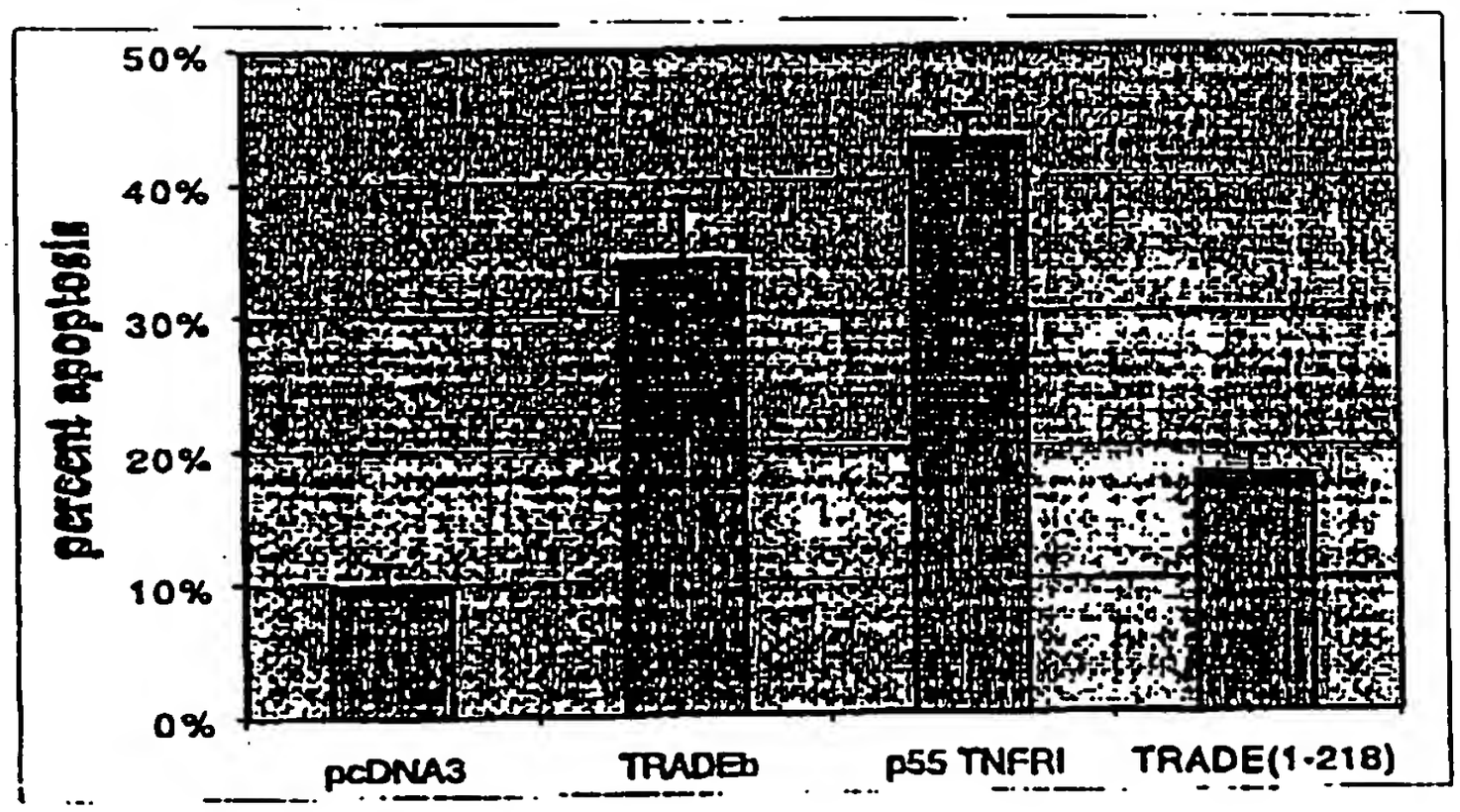

percent apoptosis
50%
40%
30%
20%
10%
0%
pcDNA3
TRADEb
p55 TNFRI
TRADE(1-218)

Figure 7

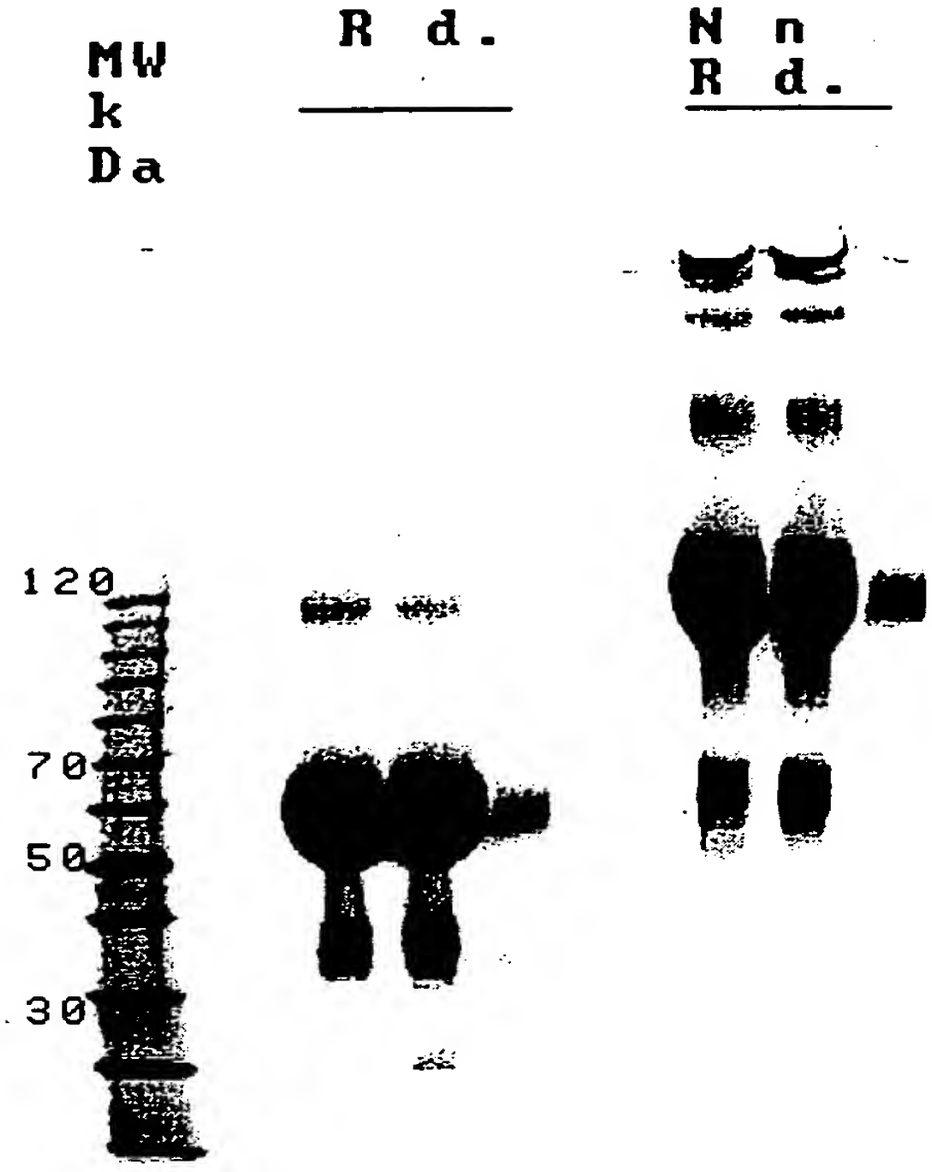
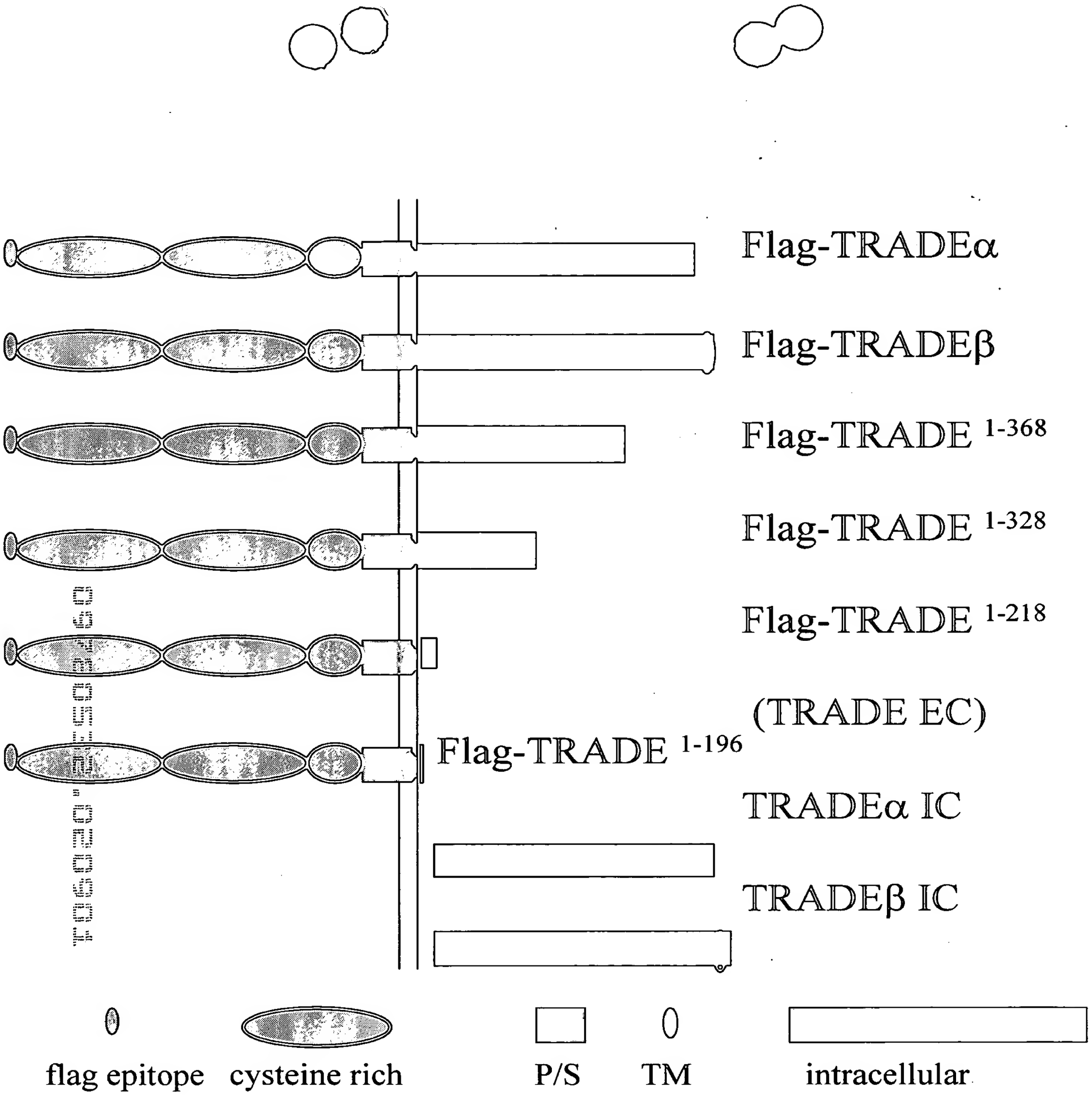


Figure 8



Deletion analysis

FIGURE 9

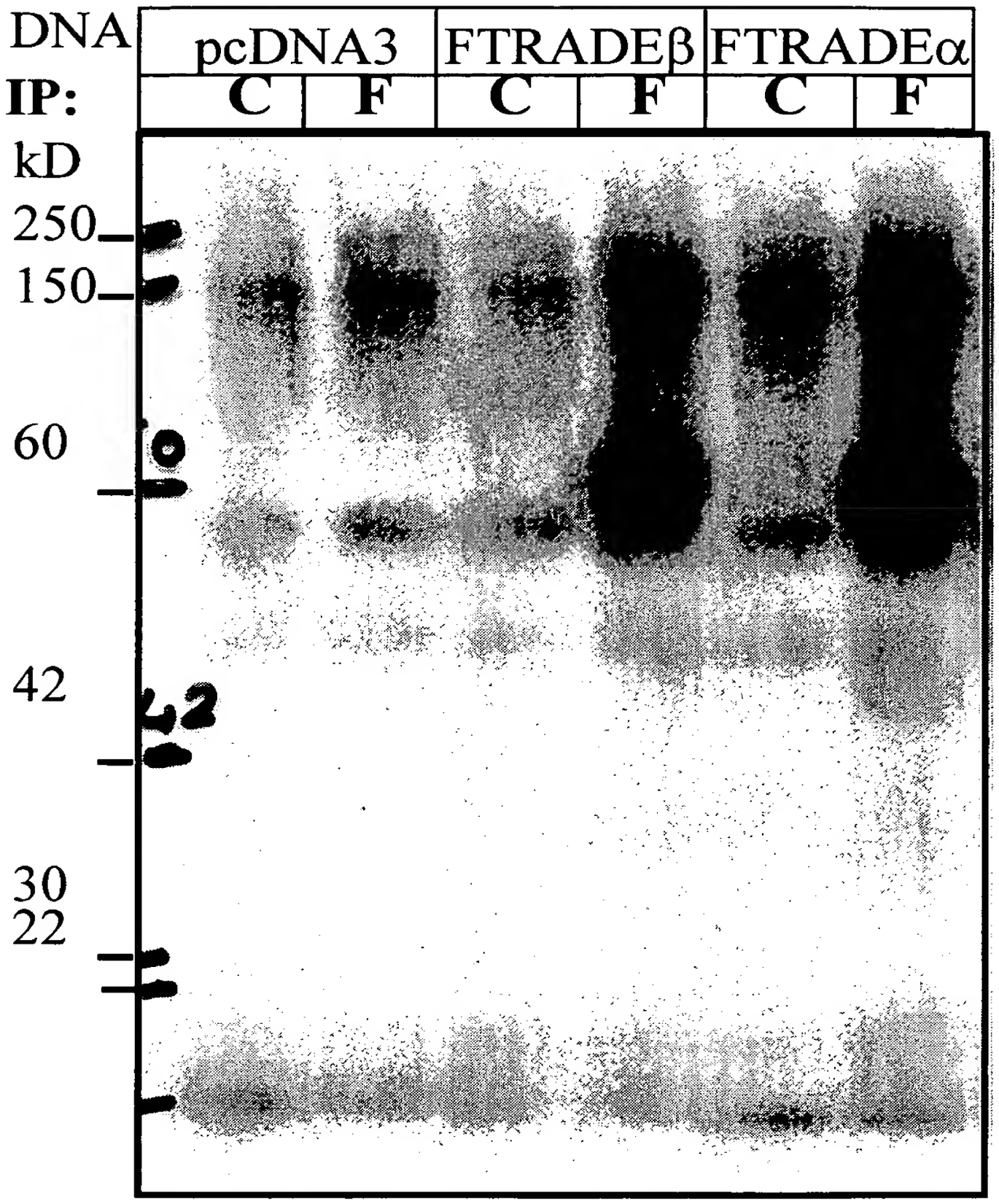
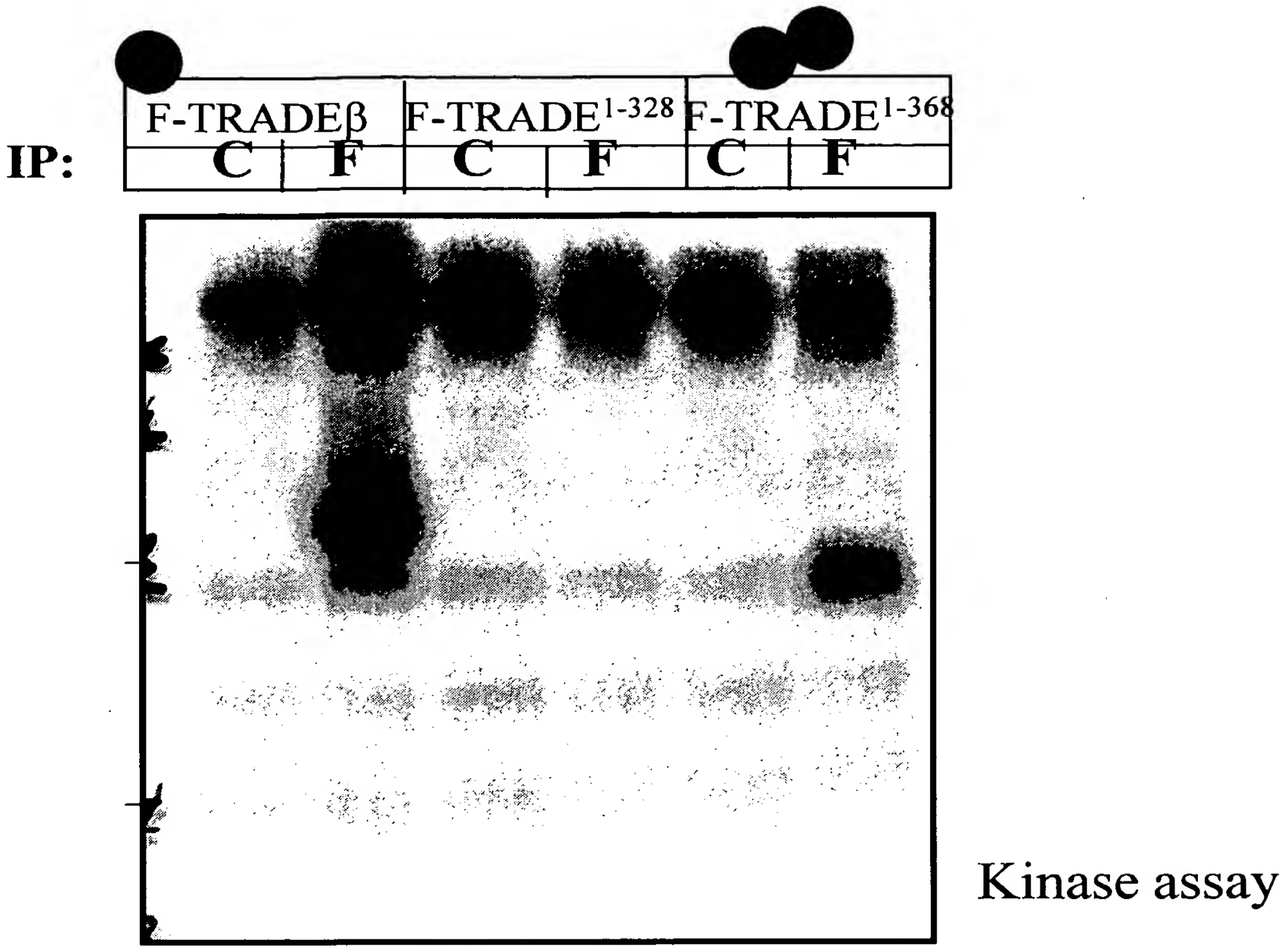


FIGURE 10

A


IP:
F-TRADEβ
F-TRADE1-328
F-TRADE1-368
C
F
C
F
C
F
Kinase assay

B

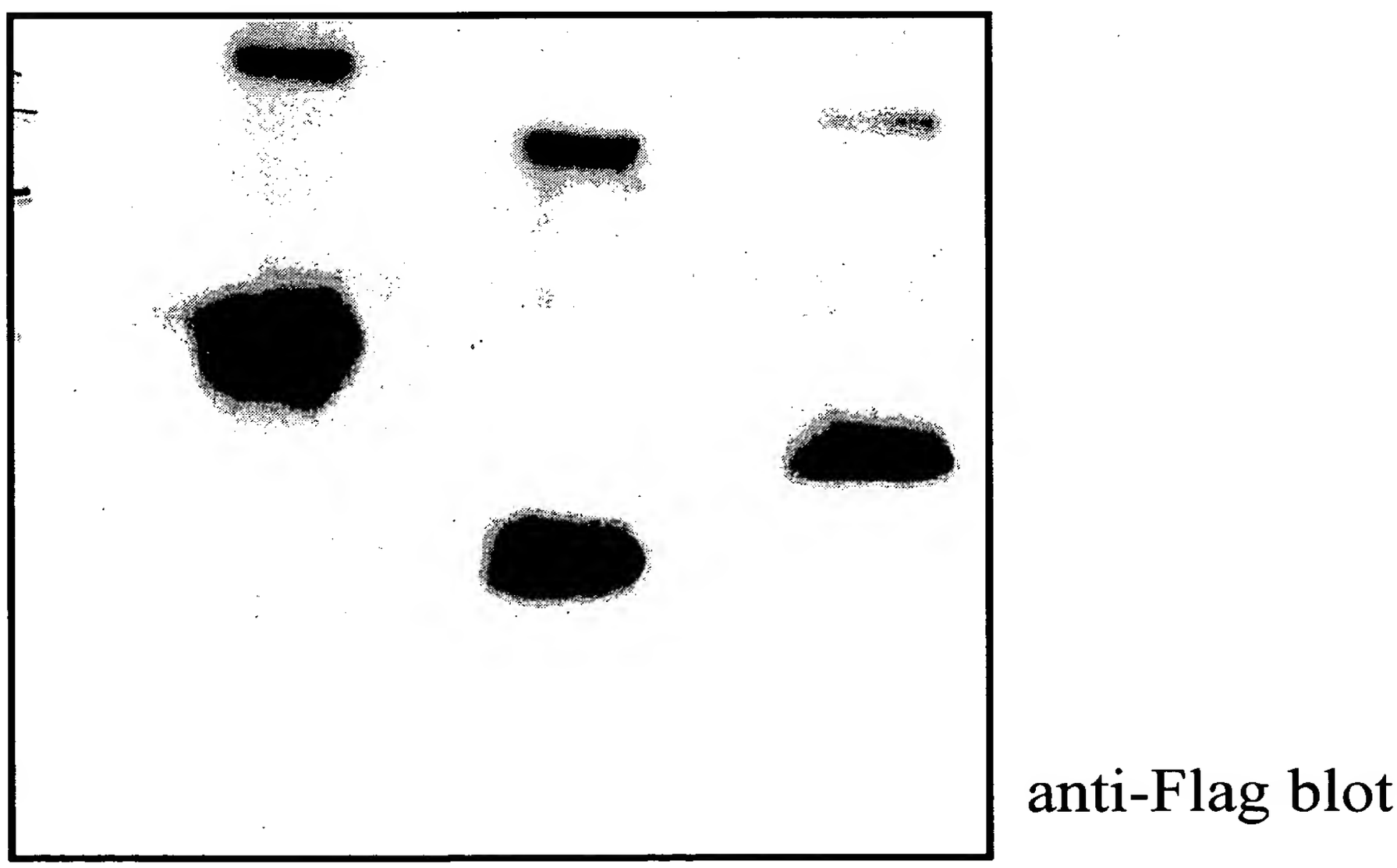
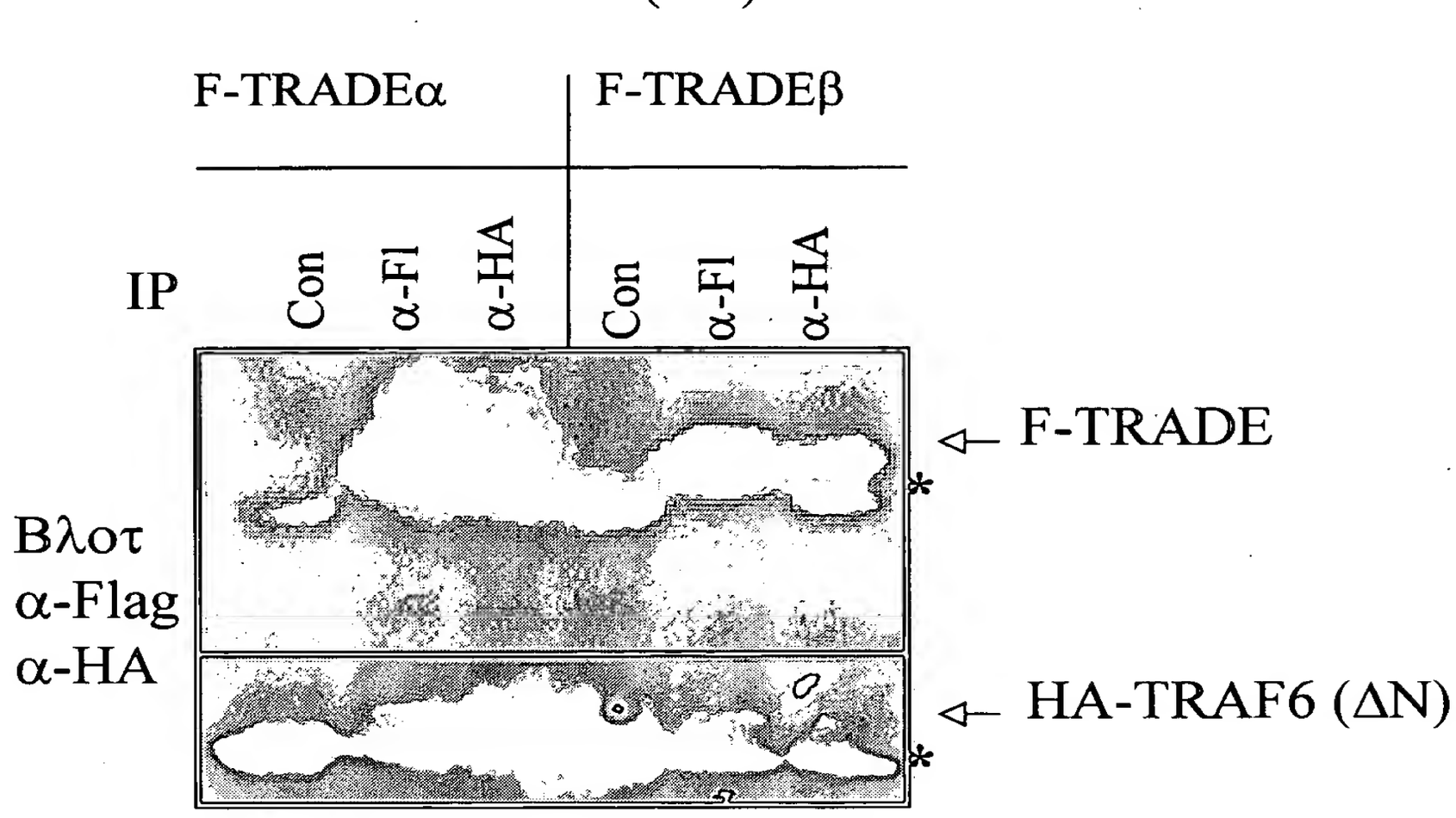

IP:
F-TRADEβ
F-TRADE1-328
F-TRADE1-368
C
F
C
F
C
F
anti-Flag blot

FIGURE 11

A


HA-TRAF6(ΔN) +
F-TRADEα
F-TRADEβ
IP
Con
α-Fl
α-HA
Con
α-Fl
α-HA
Βλοτ
α-Flag
α-HA
F-TRADE
HA-TRAF6 (ΔN)
*
*

B

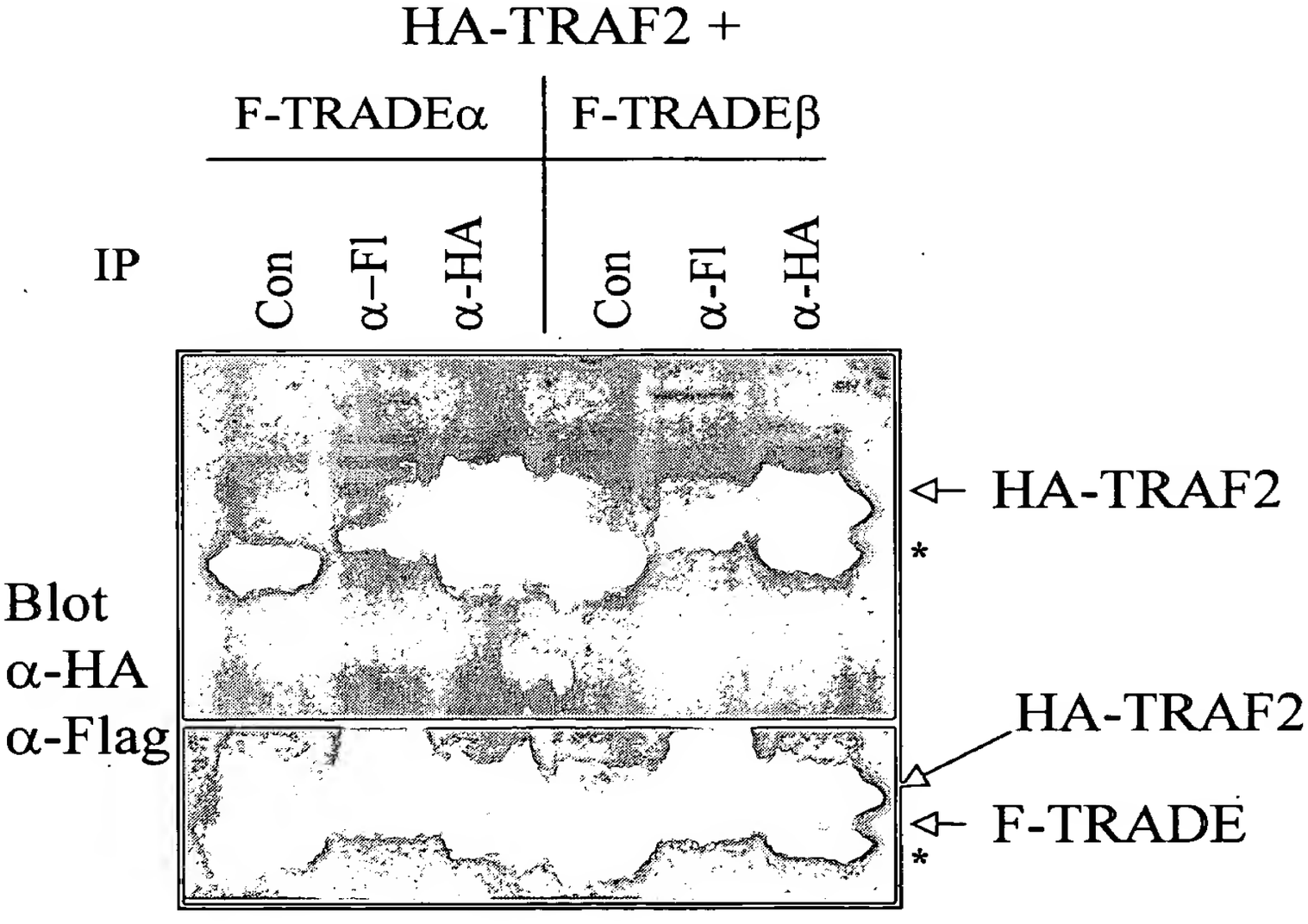

HA-TRAF2 +
F-TRADEα
F-TRADEβ
IP
Con
α–Fl
α-HA
Con
α-Fl
α-HA
Blot
α-HA
α-Flag
HA-TRAF2
HA-TRAF2
F-TRADE
*
*

FIGURE 12

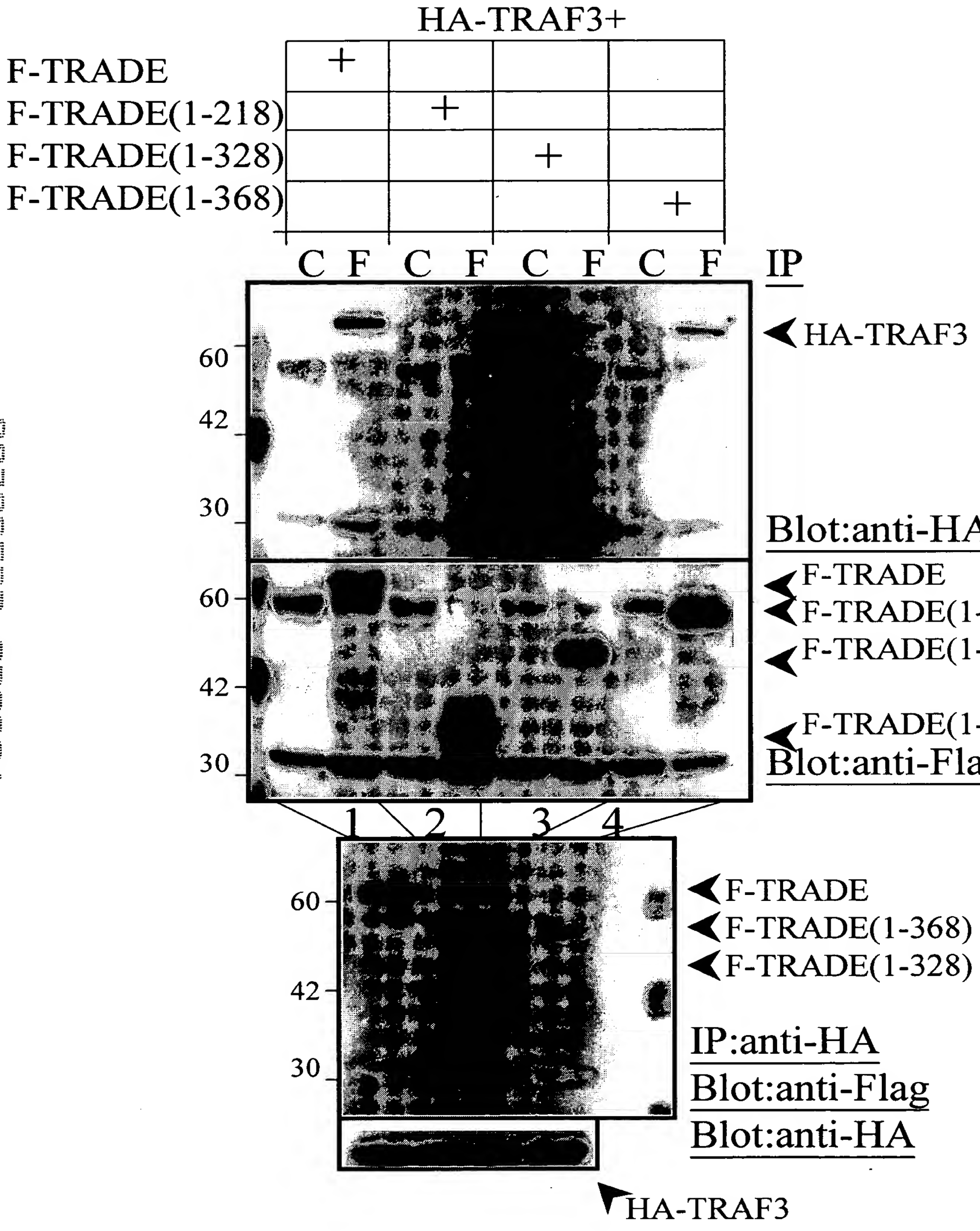

HA-TRAF3+
F-TRADE
F-TRADE(1-218)
F-TRADE(1-328)
F-TRADE(1-368)
C F C F C F C F IP
HA-TRAF3
60
42
30
Blot:anti-HA
F-TRADE
F-TRADE(1-368)
F-TRADE(1-328)
F-TRADE(1-218)
Blot:anti-Flag
1 2 3 4
F-TRADE
F-TRADE(1-368)
F-TRADE(1-328)
IP:anti-HA
Blot:anti-Flag
Blot:anti-HA
HA-TRAF3

FIGURE 13

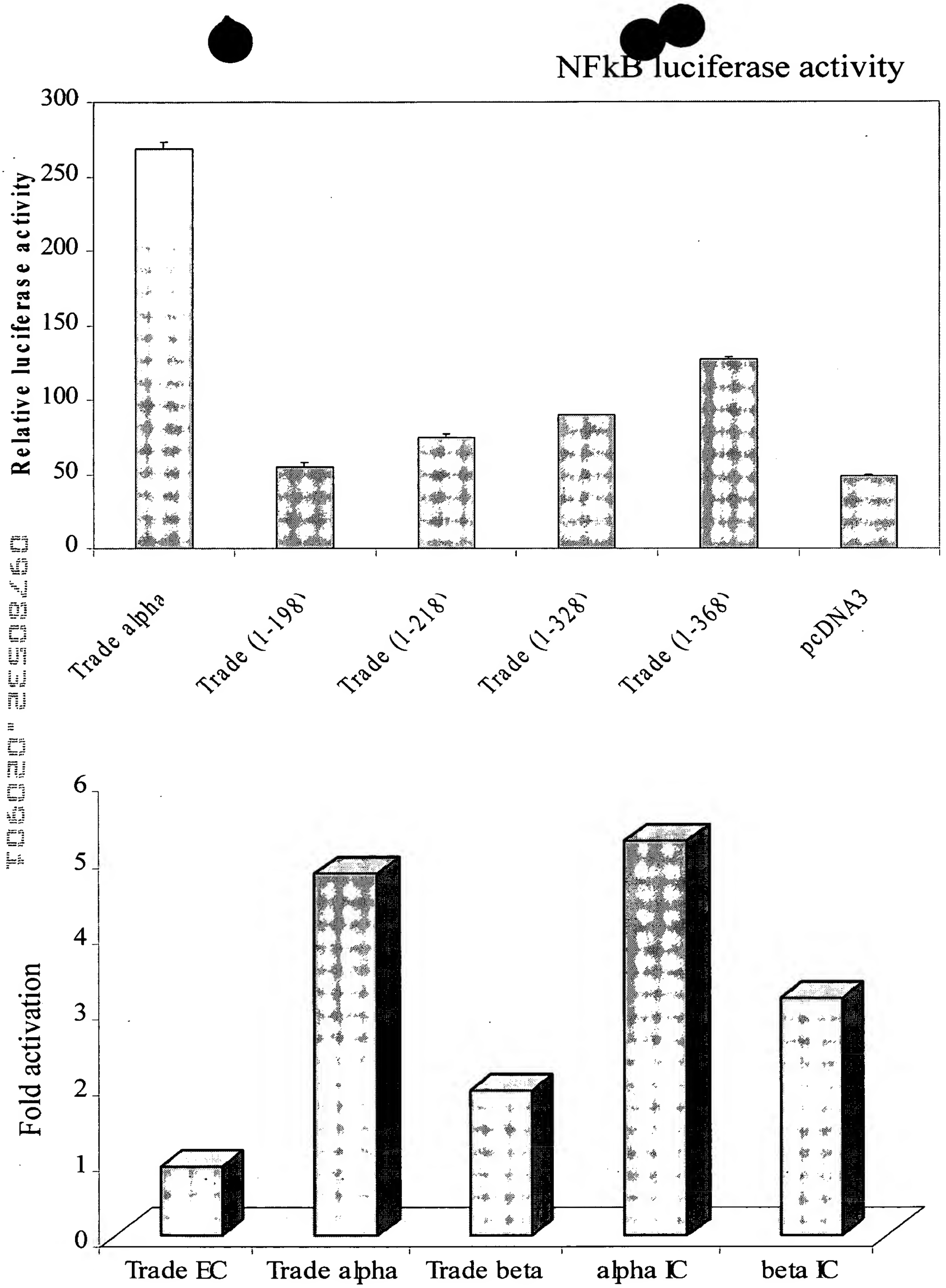

NFkB luciferase activity
Relative luciferase activity
300
250
200
150
100
50
0
Trade alpha
Trade (1-198)
Trade (1-218)
Trade (1-328)
Trade (1-368)
pcDNA3
Fold activation
6
5
4
3
2
1
0
Trade EC
Trade alpha
Trade beta
alpha IC
beta IC

FIGURE 14